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DIRECTORATE OF
INTELLIGENCE

General Purpose Weapons
Industrial Facilities

Basic Imagery Interpretation Report

Chu-chou Aircraft Engine Plant 331

Chu-chou, China

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TITLE NPIC

SEC. CLASS. LOCATION

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INSTALLATION OR ACTIVITY NAME			COUNTRY
Chu-chou Aircraft Engine Plant 331			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	WAC/PIC
N/A	27-48-16N 113-11-04E	N/A	0498-17E

MAP REFERENCE

DIA. ACIC USATC 200 Sheet M0498-1AL, 2nd ed, September 60, Scale 1:200,000 (SECRET

LATEST IMAGERY USED	NEGATION DATE (If required)
	N/A

ABSTRACT

Chu-chou Aircraft Engine Plant 331 is the smallest of Communist China's aircraft engine plants. Since the first photography of this plant in March 1959, the floor space has more than doubled and now totals approximately 1.4 million square feet. The plant has two production areas. The main production area is the older portion of the plant and contains aircraft engine test facilities. The subsidiary production area, which has been built since 1959, has a test facility for small rockets or cruise missile engines. This plant probably produces sustainer engines for the SSN-2 (Styx) missiles currently in production at Nan-chang Airframe Plant 320.

NOTE: This report has been published as an interim Basic Imagery Interpretation Report with the concurrence of the Defense Intelligence Agency.

INTRODUCTION

Chu-chou Aircraft Engine Plant 331 is located in Hunan Province, China at 27-48-16N 113-11-04E, approximately 1.5 nautical miles southeast of the city of Chu-chou. The plant is served by road and by a rail spur from the Han-kou/Kuang-chou rail line.

BASIC DESCRIPTION

When first observed in March 1959, Plant 331 contained about half of its present floor space or approximately 650,000 square feet. The subsidiary production area and three of the major facilities in the main production area were not present.

Between March 1959 and June 1963 the majority of the facilities in the subsidiary production area and two principal buildings (Items 22 and 27) in the main production area were constructed. The only major buildings constructed since June 1963 were a machine shop/assembly building (Item 37) in the subsidiary production area and a probable forge in the main production area (Item 16). For the chronological development of the plant from March 1959 through August 1967, plus a detailed functional and dimensional analysis of facilities, see Figure 3 and its accompanying table.

All of Communist China's airframe and aircraft engine plants have apparently been constructed to operate in the pair concept. The nearest airframe plant to Chu-chou Engine Plant is the Nan-chang Airframe Plant 320, which is located approximately 175 nautical miles to the northeast. Because the Nan-chang Airframe Plant is presently producing the SSN-2 (Styx) missile and because Chu-chou has a horizontal test facility for small rockets or cruise missile engines, it is quite likely that this plant is producing the sustainer engine for the SSN-2 (Styx) missile.

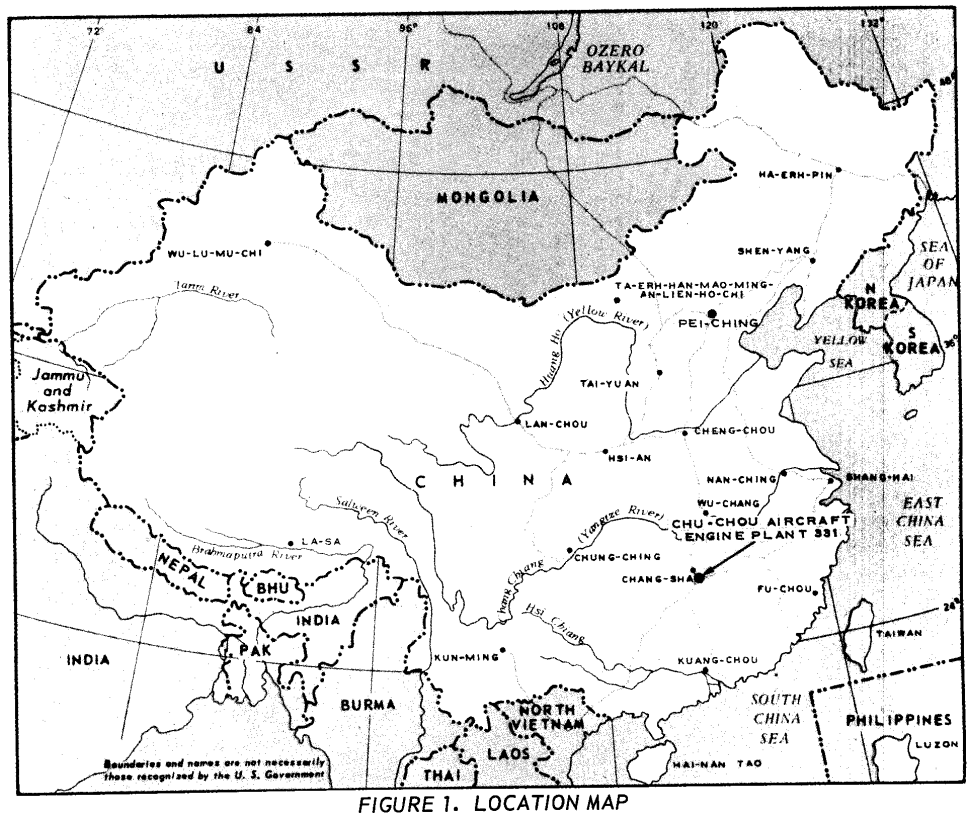
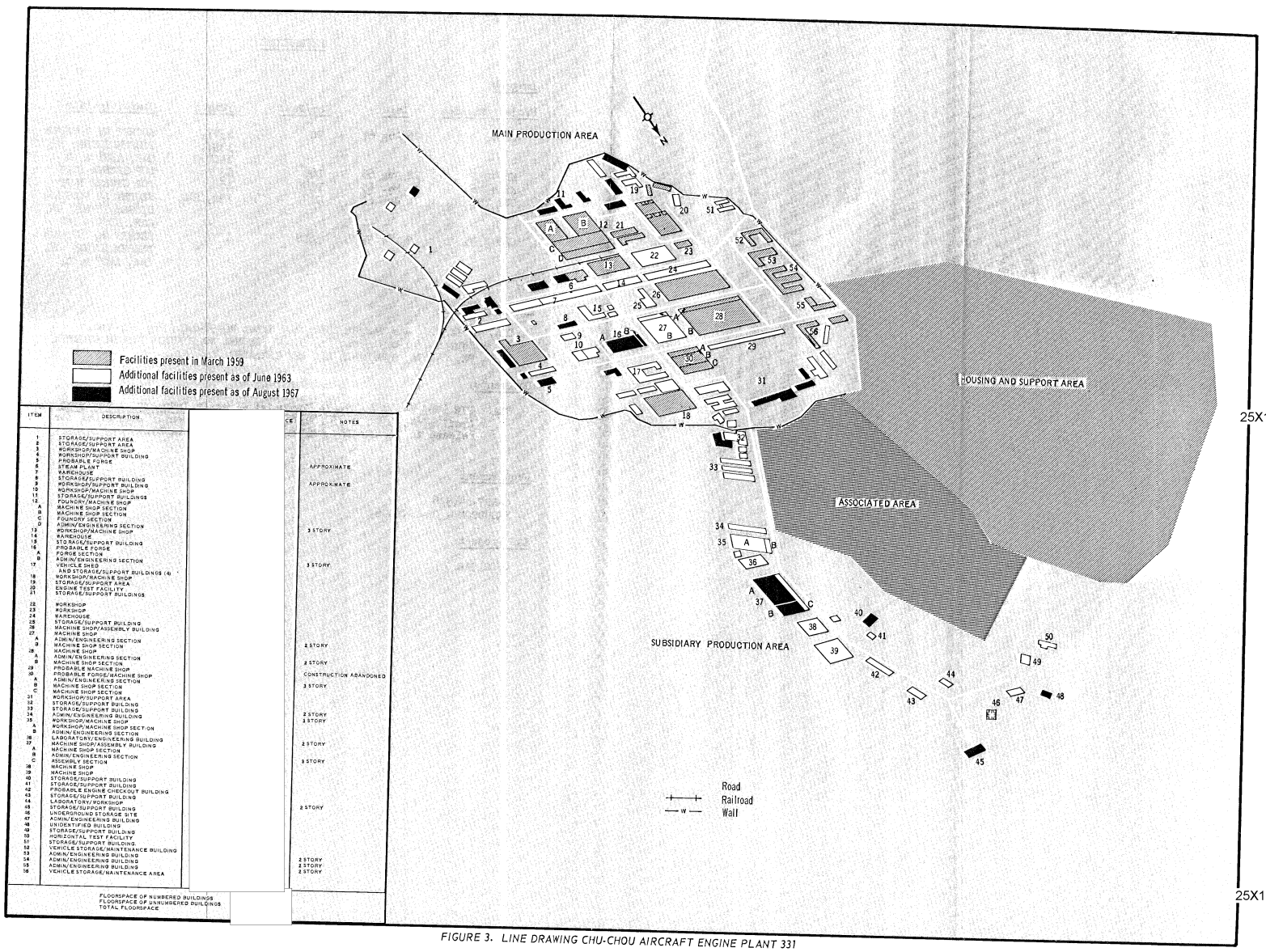


FIGURE 1. LOCATION MAP

FIGURE 2. CHU-CHOU AIRCRAFT ENGINE PLANT 331, AUGUST 1967



ITEM	DESCRIPTION	NOTES
1	STORAGE/SUPPORT AREA	
2	STORAGE/SUPPORT AREA	
3	WORKSHOP/MACHINE SHOP	
4	WORKSHOP/SUPPORT BUILDING	
5	PROBABLE FORGE	
6	STEAM PLANT	APPROXIMATE
7	WAREHOUSE	
8	STORAGE/SUPPORT BUILDING	APPROXIMATE
9	WORKSHOP/SUPPORT BUILDING	
10	WORKSHOP/MACHINE SHOP	
11	STORAGE/SUPPORT BUILDINGS	
12	FOUNDRY/MACHINE SHOP	
A	MACHINE SHOP SECTION	
B	MACHINE SHOP SECTION	
C	FOUNDRY SECTION	
D	ADMIN/ENGINEERING SECTION	
13	WORKSHOP/MACHINE SHOP	3 STORY
14	WAREHOUSE	
15	STORAGE/SUPPORT BUILDING	
16	PROBABLE FORGE	
A	FORGE SECTION	
B	ADMIN/ENGINEERING SECTION	
17	VEHICLE SHED AND STORAGE/SUPPORT BUILDINGS (4)	3 STORY
18	WORKSHOP/MACHINE SHOP	
19	STORAGE/SUPPORT AREA	
20	ENGINE TEST FACILITY	
21	STORAGE/SUPPORT BUILDINGS	
22	WORKSHOP	
23	WORKSHOP	
24	WAREHOUSE	
25	STORAGE/SUPPORT BUILDING	
26	MACHINE SHOP/ASSEMBLY BUILDING	
27	MACHINE SHOP	
A	ADMIN/ENGINEERING SECTION	
B	MACHINE SHOP SECTION	2 STORY
28	MACHINE SHOP	
A	ADMIN/ENGINEERING SECTION	2 STORY
B	MACHINE SHOP SECTION	
29	PROBABLE MACHINE SHOP	CONSTRUCTION ABANDONED
30	PROBABLE FORGE/MACHINE SHOP	
A	ADMIN/ENGINEERING SECTION	3 STORY
B	MACHINE SHOP SECTION	
C	MACHINE SHOP SECTION	
31	WORKSHOP/SUPPORT AREA	
32	STORAGE/SUPPORT BUILDING	2 STORY
33	STORAGE/SUPPORT BUILDING	3 STORY
34	ADMIN/ENGINEERING BUILDING	
35	WORKSHOP/MACHINE SHOP	
A	WORKSHOP/MACHINE SHOP SECTION	
B	ADMIN/ENGINEERING SECTION	
36	LABORATORY/ENGINEERING BUILDING	
37	MACHINE SHOP/ASSEMBLY BUILDING	
A	MACHINE SHOP SECTION	2 STORY
B	ADMIN/ENGINEERING SECTION	
C	ASSEMBLY SECTION	3 STORY
38	MACHINE SHOP	
39	MACHINE SHOP	
40	STORAGE/SUPPORT BUILDING	
41	STORAGE/SUPPORT BUILDING	
42	PROBABLE ENGINE CHECKOUT BUILDING	
43	STORAGE/SUPPORT BUILDING	
44	LABORATORY/WORKSHOP	2 STORY
45	STORAGE/SUPPORT BUILDING	
46	UNDERGROUND STORAGE SITE	
47	ADMIN/ENGINEERING BUILDING	
48	UNIDENTIFIED BUILDING	
49	STORAGE/SUPPORT BUILDING	
50	HORIZONTAL TEST FACILITY	
51	STORAGE/SUPPORT BUILDING	
52	VEHICLE STORAGE/MAINTENANCE BUILDING	
53	ADMIN/ENGINEERING BUILDING	
54	ADMIN/ENGINEERING BUILDING	2 STORY
55	ADMIN/ENGINEERING BUILDING	2 STORY
56	VEHICLE STORAGE/MAINTENANCE AREA	2 STORY

FLOORSPACE OF NUMBERED BUILDINGS
FLOORSPACE OF UNNUMBERED BUILDINGS
TOTAL FLOORSPACE

FIGURE 3. LINE DRAWING CHU-CHOU AIRCRAFT ENGINE PLANT 331

REFERENCES

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Maps and Charts

DIA. ACIC U.S. Air Target Chart 200 Sheet M0498-1AL, 2nd edition, September 1960, Scale 1:200,000 (SECRET

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Documents

CIA. PIR 1003/64, The Chinese Communist Aircraft Industry, 1944-1963. April 1964, (SECRET

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Requirement

C-RR7-84,536
EXSUBCOM - GR-L/002-69

IAS Project

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